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US 886 U.S. PTO

**UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.
SAR 13798

Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTSBox Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for invention entitled:

METHOD AND APPARATUS FOR ADJUSTING AN EMBEDDED PORTION OF A TELEVISION SIGNALJCS42 U.S. PTO
09/619333

07/19/00

and invented by:

Robert William Shideleff, Charles Benjamin Dieterich, Michael Allen Plotnick
Charles Weaver Christine, Elizabeth Annella Martina Seip, Charles August Asmuth,
Kent Charles Koping, Patrick Michael SheehanIf a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

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Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 13 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications *(if applicable)*
 - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
 - d. ☐ Reference to Microfiche Appendix *(if applicable)*
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings *(if drawings filed)*
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
SAR 13798

Total Pages in this Submission

Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☐ Formal Number of Sheets _____
- b. ☒ Informal Number of Sheets 3
4. ☒ Oath or Declaration
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (identical to computer copy)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail (Specify Label No.): EJ597185462US

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
SAR 13798

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

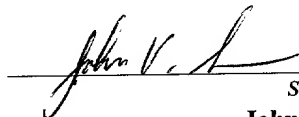
16. ☐ Additional Enclosures (please identify below):

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	20	- 20 =	0	x \$18.00	\$0.00
Indep. Claims	4	- 3 =	1	x \$78.00	\$78.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$690.00
OTHER FEE (specify purpose) <u>Recordation Fee</u>					\$40.00
TOTAL FILING FEE					\$808.00

- ☐ A check in the amount of _____ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. **04-0203** as described below. A duplicate copy of this sheet is enclosed.
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 - ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
 - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).



Signature

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Attorney for Applicants
Registration No. 34,014

Dated: **18 JULY 2000**

19

cc:

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)Applicant(s): **SHIDELEFF, R.W. ET AL.**

Docket No.

SAR 13798

Serial No.

NOT YET KNOWN

Filing Date

HEREWITH

Examiner

NOT YET KNOWN

Group Art Unit

NOT YET KNOWNInvention: **METHOD AND APPARATUS FOR ADJUSTING AN EMBEDDED PORTION OF A TELEVISION SIGNAL**

I hereby certify that the following correspondence:

NEW UTILITY PATENT APPLICATION*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on

19 **JULY 2000**
(Date)

*Rose Macaulley**(Typed or Printed Name of Person Mailing Correspondence)**Rose Macaulley**(Signature of Person Mailing Correspondence)***EJ597185462US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**JC542 U.S. PTO
09/619313

07/19/00

METHOD AND APPARATUS FOR ADJUSTING AN EMBEDDED PORTION OF A TELEVISION SIGNAL

The present invention relates to the adjustment of embedded
5 information in a television signal. More specifically, the invention relates to
a method and apparatus for preventing conflicts when a television receiver
and set top terminal are each capable of processing embedded information,
e.g., line 21 video information, in the television signal.

10 BACKGROUND OF THE DISCLOSURE

FIG. 1 depicts a system level diagram of a television system 100. A
typical configuration of the television system 100 comprises a signal source
110, a set top terminal 120 and a television receiver 130. The signal source
110 provides a television signal, e.g., a National Television Standard
15 Committee (NTSC) television signal or a high definition television (HDTV)
signal, for use in the television system 100. Examples of such video sources
110 may include an antenna for producing "over-the-air" television signals,
a cable carrying cable television signals or a satellite receiver for generating
satellite television signals.

20 The set top terminal 120 receives the television signal from the signal
source 110. If the received television signal is RF or IF, the set top terminal
120 may convert the video and audio portions of the received television
signal into baseband signals. The set top terminal 120 processes the video
and audio components of the television signal into a suitable format, e.g.,
25 NTSC format, for display on the television receiver 130. Examples of set top
terminals 120 may include a cable box, a video cassette recorder (VCR), or
an Advanced Television Systems Committee (ATSC) legacy converter box.

The television receiver 130 processes the television signal, e.g., a
NTSC signal, to display standard video and audio programmed content.
30 Recent versions of the television receiver 130 may provide closed caption
information pursuant to the Television Decoder Circuitry Act of 1990 and V-
chip rating control pursuant to the Telecommunications Act of 1996. As
such, the television receiver 130 may decode and display information
embedded, e.g., line 21 information, in the television signal. In this case,
35 the set top terminal 120 generally passes the television signal from the
signal source 110 to the television receiver 130.

However, the set top terminal 120 is also capable of decoding and processing the television signal for display on the television receiver 130. This processing is normally performed where the television receiver 130 is a legacy television incapable of independently decoding embedded information in the television signal. In this case, only the set top terminal 120 may process embedded information used to provide closed captioning and filter video content.

A problem exists if both the set top terminal 120 and television receiver 130 decode and process the television signal for display. As the set top terminal 120 and television receiver may independently process embedded information for display, conflicts between the set top terminal 120 and television receiver 130 may arise. In one example, both the set top terminal 120 and television receiver 130 may provide separate closed caption displays over the displayed video. If the closed caption displays are not placed with identical positions and identical fonts from the set top terminal 120 and television receiver 130, then these closed caption displays will overlap, thereby creating a confusing display.

In another example, the set top terminal 120 and television receiver 130 perform block or pass program content based on V-chip information. For example, a set top terminal 120 may pass or allow program content that is then blocked by a downstream television receiver 130. Since only the display from the downstream television receiver 130, i.e., the device blocking the program, is shown, the viewer loses feedback from the tuning device, i.e., the set top terminal 120. Moreover, if the television system 100 comprises multiple set top terminals 120, e.g., a cable box and a VCR, it would be difficult to determine which set top terminal 120 is actually blocking the program content.

In another example, the set top terminal 120, e.g., a VCR, may record a program with a time index or timestamp typically embedded in line 21 of the television signal. As a downstream set top terminal 120 or television receiver 130 utilizes this timestamp to set a display clock. As such, when the television signal is played back at a later time, the playing device would provide erroneous time information.

Therefore, a need exists in the art for eliminating the display conflicts between the set top terminal and the television receiver.

SUMMARY OF THE INVENTION

The present invention overcomes the disadvantages associated with the prior art by providing a method and apparatus that adjusts the embedded portion of a received television signal. Specifically, the invention receives a television signal having an embedded portion, detects the embedded portion, and adjusts the embedded portion. The adjustment is performed such that a downstream receiver effects no change on a displayed video upon decoding the adjusted embedded portion. Such embedded information may comprise line 21 information such as closed captioning, V-chip rating or timestamp information. In one embodiment of the invention, a set top terminal may adjust the embedded portion such that a downstream television receiver may not affect changes to a displayed video. In this case, only the set top terminal may effect changes on the displayed video upon decoding the embedded portion.

BRIEF DESCRIPTION OF THE DRAWINGS

The teachings of the present invention can be readily understood by considering the following detailed description in conjunction with the accompanying drawings, in which:

FIG. 1 depicts a high level block diagram of a television system;

FIG. 2 depicts a block diagram of a set top terminal in the television system of FIG. 1;

FIG. 3 depicts a flow diagram for implementing a processing routine of the present invention;

FIG. 4 depicts a portion of the processing routine in a first embodiment of the present invention;

FIG. 5 depicts a portion of the processing routine in a second embodiment of the present invention; and

FIG. 6 depicts a portion of the processing routine in a third embodiment of the present invention.

DETAILED DESCRIPTION

Although the present invention is described in the context of a television system comprising a receiver and set top terminal, the present invention also applies to any system having two or more receivers capable of processing embedded information in a signal.

FIG. 2 depicts a block diagram of a set top terminal 200 in the television system of FIG. 1. The set top terminal 200 may comprise any terminal that receives a television signal via path 201, processes the television signal and provides the processed television signal to a television via path 221. An example of the set top terminal 200 is provided in United States Patent Application, Serial No. 08/950, 505, filed on September 16, 1997, and entitled "Set Top Terminal for an Interactive Information Distribution System," which is herein incorporated by reference in its entirety.

Specifically, the set top terminal 200 comprises a tuner 202, a first switch 204, a digital demodulator 206, an analog demodulator 208, a second switch 210, a processor 212, a memory 214, input/output (I/O) circuits 218, a National Television Standard Committee (NTSC) modulator 218, and a decoder 222. In one embodiment of the invention, the tuner 202 receives a radio frequency (RF) television signal from the signal source, e.g., an antenna, and downconverts the RF television signal into an intermediate frequency (IF) television signal.

The first switch 204 couples the IF television signal from the tuner 202 to either the digital demodulator 206 or the analog demodulator 208, e.g., a NTSC demodulator. Namely, the first switch 204 routes the IF television signal to the proper demodulator. The digital demodulator 206 converts a digital IF television signal into a digital baseband television signal. Similarly, the analog demodulator 206 converts an analog IF television signal into an analog baseband television signal. The second switch 210 couples the digital or analog baseband television signal to the processor 212.

The baseband television signal is coupled to the processor 212 and the decoder 222. The processor 212 executes a software program to perform the required processing for overcoming the problems of the prior art.

Specifically, the processor 212 executes a software program to implement a method 300 embodied in FIG. 3 as described below. The software program is stored in memory 214, e.g., read only memory (ROM), solid state memory, optical memory and the like. A viewer may use input/output (I/O) devices
5 220 to control features or settings, e.g., closed captioning, blockage of selected program content, of the set top terminal 200. In the context of a television system 100, the I/O device 216 may comprise an input device, e.g., a remote control, or an output device, e.g., a display device or monitor. The I/O circuits 218 provide an interface between the processor 212 and one or
10 more I/O devices 216.

Upon executing the software program, the processor 212 adjusts the embedded portion, e.g., the line 21 information, of the baseband television signal. In one embodiment of the invention, the closed captioning information may be removed from the line 21 information. In another
15 embodiment, the V-chip rating may be removed or adjusted to a rating, e.g., a G rating, which is always passed by a downstream television 130. The timestamp in the embedded information may be removed as well. The adjusted television signal is coupled to a NTSC modulator, where the adjusted baseband television signal is modulated into a NTSC television
20 signal. This NTSC television signal is coupled to a downstream television receiver via path 221. In this manner, the television receiver is prevented from processing the embedded portion of the television signal. As such, since only the set top terminal 200 processes the embedded portion of the television signal, the prior art problem is thereby eliminated.

25 In one embodiment of the invention, the processor 212 extracts the embedded portion of the baseband television signal. The decoder 222 decodes the extracted signal, e.g., the embedded portion of the baseband television signal, to generate graphics information, e.g., open caption information. The graphics information is applied to the NTSC modulator
30 220, where an image having integrated graphics is created. The NTSC modulated television signal is transmitted to a downstream receiver, e.g., a television receiver.

The present invention may also be implemented as a program product for use with the television system 100. The program(s) of the program
35 product defines functions that can be contained on a variety of

signal/bearing media, which include, but are not limited to, (i) information permanently stored on non-writable storage media, (e.g., read-only memory devices within a computer such as CD-ROM disks readable by a CD-ROM drive); (ii) alterable information stored on writable storage media (e.g., floppy disks within a diskette drive or hard-disk drive); or (iii) information conveyed to a computer by a communications medium, such as through a computer or telephone network, including wireless communications. Such signal-bearing media, when carrying computer-readable instructions that direct the functions of the present invention, represent additional
10 embodiments of the present invention.

FIG. 3 depicts flow diagram for implementing a method 300 of the present invention. The method 300 starts at step 302 and proceeds to receive the baseband television signal at step 304. Prior conversions of the television signal, i.e., conversion to RF to IF to baseband, are performed in a
15 standard manner and are not discussed within the context of this method 300.

At step 306, the method 300 determines whether to provide closed captioning. If closed caption is desired, then the method 300 proceeds to step 308, where closed caption processing is performed. Step 308 is
20 embodied in a method 400 in FIG. 4.

FIG. 4 depicts a flow diagram of the method 400 to implement a first embodiment of the present invention. The method 400 proceeds to step 410, where closed caption information is detected within the television signal. The closed caption information represents information that is embedded
25 within the television signal, e.g., line 21 information of a NTSC television signal or line 22 of a Phase Alternate Line (PAL) television signal. Closed caption information is typically provided in analog television signals in accordance with EIA-608 (EIA: Electronic Industries Alliance) standard and provided in digital television signals, e.g., a HDTV signal, in accordance
30 with EIA-708.

At step 420, the method 400 reformats, e.g., removes, the portion of the television signal corresponding to the closed-caption information. In one embodiment of the invention, step 420 removes the closed caption information from the line 21 information of the NTSC television signal. In
35 this matter, the television receiver or another downstream set top terminal

can no longer process the closed caption information removed from the television signal. As such, only closed caption information from the set top terminal is displayed. Step 420 can also remove the closed caption information in a selective manner, i.e., the closed caption information can be
5 always removed or only when the set top terminal is used to display closed caption information.

The method 400 proceeds to step 430, where the set top terminal 200 applies the open captions, i.e., the embedded portion of the television signal that is decoded, to the video. More specifically, the detected closed caption
10 information is extracted from the television signal, decoded into open caption graphics, and applied to the video. In this matter, the open caption is integrated into the video of the television signal and the embedded portion is reformatted. This television signal is sent downstream to a receiver, e.g., a television receiver.

Returning to FIG. 3, after performing closed caption processing at
15 step 308, the method 300 proceeds to step 310. If closed captioning is not desired at step 306, the method directly proceeds to step 310. At step 310, the method 300 determines whether to restrict program viewing. If program viewing is to be restricted, the method 300 proceeds step 312,
20 where V-chip processing is performed. Step 312 is embodied in a method 500 depicted in FIG. 5.

FIG. 5 depicts a flow diagram of a method 500 to implement a second embodiment of the present invention. As with closed captioning information, V-chip rating information is typically provided in line 21 of the
25 television signal. The V-chip ratings are generally provided in an NTSC television signal in accordance with, for example, EIA-744A. In an Advanced Television Systems Committee (ATSC) television signal, the V-chip rating information is provided in accordance to a Program and System Information Protocol (PSIP).

The method 500 starts at step 510, where rating information streams
30 are demultiplexed from the television signal. At step 520, the V-chip rating information is detected from the television signal. The method 500 proceeds to step 530, where the portion of the television signal corresponding to the V-chip rating information is reformatted, e.g., deleted or modified. After
35 modifying the V-chip information, the method proceeds to provide a V-chip

user interface on the display device. In one mode of operation, if a viewer desires to pass a particular rated program, the set top terminal would delete the V-chip information or modify the V-chip information to a general pass mode. In this case, the downstream receiver, e.g., a television receiver, is
5 precluded from blocking the television program. That is, the set top terminal 200 controls the program viewability.

Returning to FIG. 3, after performing V-chip processing at step 312, the method 300 proceeds to step 314. If program viewing is not to be restricted at step 310, the method 300 directly proceeds to step 314. At step
10 314, the method 300 determines whether to record program content having a time stamp or time index. If program content having timing information is to be recorded, the method 300 proceeds step 316, where clock processing is performed. Step 316 is embodied in a method 600 depicted in FIG. 6.

FIG. 6 depicts a flow diagram of a method 600 to implement a third
15 embodiment of the present invention. The method 600 starts at step 610, where timestamp information is detected in the television signal. Such information may be embedded in the line 21 information when a VCR records a program. At step 620, the method 600 proceeds to remove the detected timestamp information. In this manner, a downstream device, e.g.,
20 a television receiver, is prevented from using this timestamp information in setting its display clock once the program is played back at a later time.

Returning to FIG. 3, after performing clock processing at step 316, the method 300 proceeds to step 318. If program content having timing information is not to be recorded, the method 300 directly proceeds to step
25 318. At step 318, the method 300 provides a signal, e.g., an adjusted NTSC television signal. Such a processed signal prevents the downstream television receiver from conflicting with information generated directly from the set top terminal 200.

Although various embodiments which incorporate the teachings of the
30 present invention have been shown and described in detail herein, those skilled in the art can readily devise many other varied embodiments that still incorporate these teachings.

What is claimed is:

1. Method for adjusting an embedded portion of a television signal comprising:
 - 5 receiving the television signal having the embedded portion;
detecting the embedded portion of the television signal; and
adjusting the embedded portion, where a downstream receiver effects
no change on a displayed video upon decoding the adjusted embedded
portion.
- 10 2. The method of claim 1 further comprising:
providing the television signal having the adjusted embedded portion
to the downstream receiver.
- 15 3. The method of claim 1 wherein said receiving, detecting and
adjusting are performed in a set top terminal.
4. The method of claim 1 wherein the downstream receiver comprises a
television receiver.
- 20 5. The method of claim 1 wherein the embedded portion comprises line
21 information of the television signal.
6. The method of claim 1 further comprising:
 - 25 demodulating the received television signal if the television signal is
a digital television signal.
7. The method of claim 1 further comprising:
 - 30 decoding the received television signal if the television signal is an
analog television signal.
8. The method of claim 1 wherein said providing comprises:
modulating the television signal into a NTSC television signal.

9. The method of claim 1 wherein the embedded portion comprises closed captioning information.
10. The method of claim 9 wherein said adjusting comprises:
5 determining whether to provide closed caption information on said displayed video; and
removing closed captioning information from the television signal if said determining is to provide closed caption.
- 10 11. The method of claim 9 wherein said adjusting comprises:
determining whether to provide closed caption information on said displayed video; and
passing closed captioning information in the television signal if said determining fails to provide closed caption, where a downstream receiver
15 may provide closed captioning information upon decoding the television signal.
12. The method of claim 9 further comprising:
decoding said detected closed caption information to generate
20 graphics information; and
applying said graphics information to said displayed video.
13. The method of claim 1 wherein the embedded portion comprises V-chip rating information.
- 25 14. The method of claim 13 wherein said adjusting comprises:
determining whether to block the television signal based on the identified V-chip rating information; and
modifying the identified V-chip rating information to a universally
30 unblocked rating if said determining is to pass the television signal.

15. The method of claim 13 wherein said adjusting comprises:
determining whether to block the television signal based on the
identified V-chip rating information; and
modifying the identified V-chip rating information to a universally
5 blocked rating if said determining is to block the television signal.
16. The method of claim 1 wherein the embedded portion comprises a
timestamp of a recorded video program.
- 10 17. The method of claim 16 wherein said adjusting comprises:
removing said timestamp from the television signal.
18. An apparatus for adjusting an embedded portion of a television signal
comprising:
15 a demodulator for demodulating a received television signal to a
baseband television signal comprising an embedded portion; and
a processor, coupled to said demodulator, for detecting and adjusting
said embedded portion of said baseband television signal, where a
downstream receiver effects no change on a displayed video upon decoding
20 the adjusted embedded portion.
19. A system for preventing a conflict in displayed video among a
plurality of receivers comprising:
a first receiver for receiving the television signal and adjusting the
25 embedded portion of the television signal; and
a second receiver, coupled downstream from said first receiver, for
decoding the embedded portion adjusted by said first receiver, where said
second receiver effects no change on a displayed video upon decoding the
adjusted embedded portion.
- 30 20. A computer readable medium storing a software program that, when
executed by a computer, causes the computer to perform a method
comprising:
receiving a television signal having an embedded portion;
35 detecting said embedded portion of said television signal; and

adjusting said embedded portion, where a downstream receiver effects no change on a displayed video upon decoding the adjusted embedded portion.

1. A method for adjusting an embedded portion of a video stream, comprising:
 receiving a video stream having an embedded portion;
 determining a first set of parameters for the embedded portion;
 adjusting the embedded portion based on the first set of parameters;
 outputting the adjusted embedded portion.

Abstract of the Disclosure

A method and apparatus for adjusting an embedded portion of a television signal. The embedded portion is adjusted such that a downstream receiver effects no change on a displayed video upon decoding

5 the adjusted embedded portion.

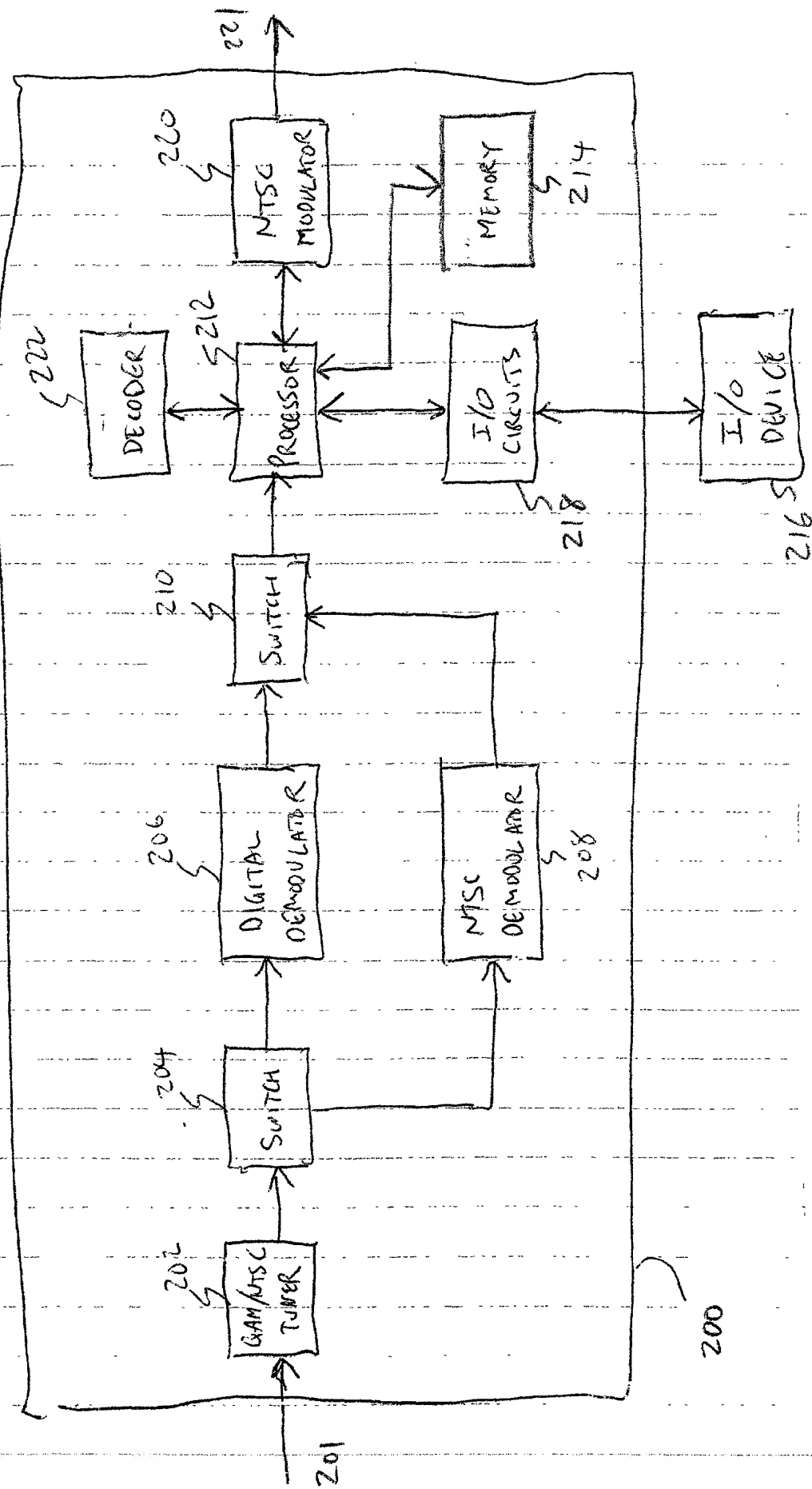


FIG. 2

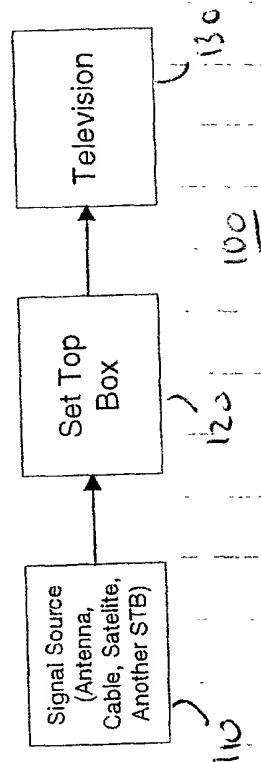


FIG. 1

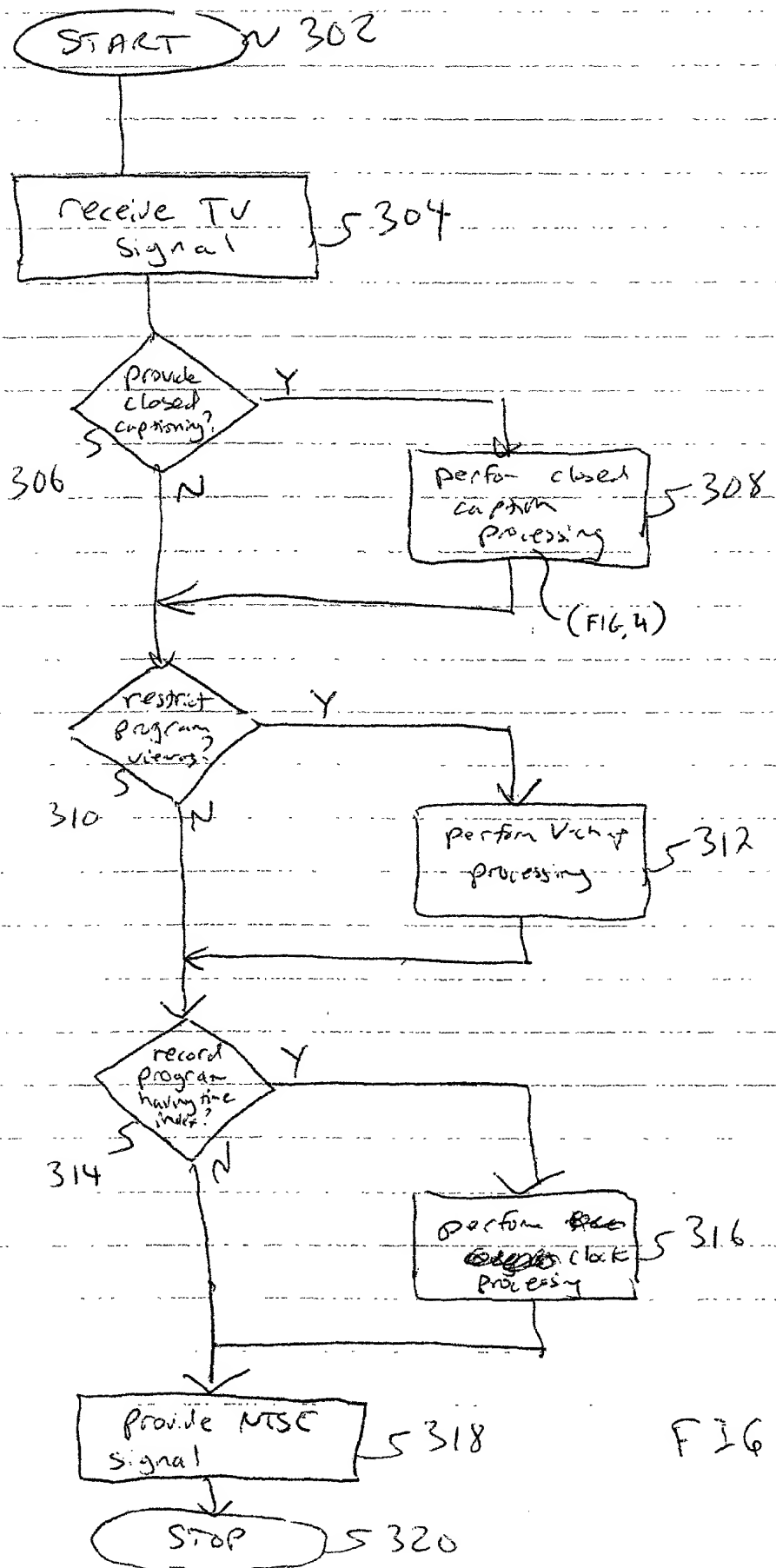


FIG 3

detect
caption information 5410

reformat
line 21 data 5420

insert oper
~~ation~~
captions 5430

demultiplex
rating information
streams 5510

detect V-chip
or PSIP rating 5520

delete/modify
V-chip information
from line 21 5530

provide V-chip
user interface 5540

FIG 4

FIG 5

detect
timestamp information 5610

remove
timestamp from
line 21 5620

FIG 6

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if multiple names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **METHOD AND APPARATUS FOR ADJUSTING AN EMBEDDED PORTION OF A TELEVISION SIGNAL**, the specification of which is being filed under the above-identified Attorney Docket Number.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____ (Priority Claimed)
			Yes _____ No _____
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____ (Priority Claimed)
			Yes _____ No _____

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status)
		(patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status)
		(patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER**FILING DATE****POWER OF ATTORNEY**

As a named inventor, I hereby appoint the following attorneys jointly and each of them severally, with full power of substitution, delegation, and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

William J. Burke, Reg. No. 29,138
 John V. Silverio, Reg. No. 34,014
 Abhik A. Huq, Reg. No. 40,656

and

Raymond R. Moser, Jr., Reg. No. 34,682
 Eamon J. Wall, Reg. No. 39,414
 Kin-Wah Tong, Reg. No. 39,400
 Of the firm Thomason, Moser & Patterson, LLP

I hereby direct that all correspondence and telephone calls in connection with this application be addressed to:

Thomason, Moser & Patterson LLP
 2-40 Bridge Avenue
 P.O. Box 8160
 Red Bank, NJ 07701
 Tel.(732) 530-9404
 Fax.(732) 530-9808

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURES

Full name of **first inventor**: Robert William Shideleff

Inventor's signature: Robert Shideleff
 Date: 6/15/2000 Country of Citizenship: U.S.A.
 Residence and Post Office Address: 229 Cambridge Lane
 Newtown, PA 18940

Full name of **second inventor**: Charles Benjamin Dieterich

Inventor's signature: Charles Benjamin Dieterich
 Date: June 16, 2000 Country of Citizenship: U.S.A.
 Residence and Post Office Address: 7 Euclid Avenue
 Kingston, NJ 08528

Full name of **third inventor**: Michael Allen Plotnick

Inventor's signature: Michael Allen Plotnick
 Date: JUNE 13, 2000 Country of Citizenship: U.S.A.
 Residence and Post Office Address: 1225 Woods Road
 Southampton, PA 18966

Full name of **fourth inventor**: Charles Weaver Christine

Inventor's signature: _____
 Date: _____ Country of Citizenship: U.S.A.
 Residence and Post Office Address: 37 Hemlock Court
 Hamilton, NJ 08619

Full name of **fifth inventor**: Elizabeth Annella Martina Seip

Inventor's signature: Elizabeth Annella Martina Seip

Date: 6-15-00 Country of Citizenship: U.S.A.

Residence and Post Office Address: 403 Catherine Street
Somerville, New Jersey 08876

Full name of **sixth inventor**: Charles August Asmuth

Inventor's signature: Charles August Asmuth

Date: 6-16-00 Country of Citizenship: U.S.A.

Residence and Post Office Address: 34 Sycamore Road
Princeton, NJ 08540

Full name of **seventh inventor**: Kent Charles Koping

Inventor's signature: Kent Charles Koping

Date: 6/15/00 Country of Citizenship: U.S.A.

Residence and Post Office Address: 43 Bennetts Lane
Somerset, NJ 08873

Full name of **eighth inventor**: Patrick Michael Sheehan

Inventor's signature: Patrick Michael Sheehan

Date: 6/26/00 Country of Citizenship: U.S.A.

Residence and Post Office Address: 2552 Candy Tuft Drive
Jamison, PA 18929

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if multiple names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **METHOD AND APPARATUS FOR ADJUSTING AN EMBEDDED PORTION OF A TELEVISION SIGNAL**, the specification of which is being filed under the above-identified Attorney Docket Number.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____ (Priority Claimed)
			Yes _____ No _____
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____ (Priority Claimed)
			Yes _____ No _____

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status) (patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status) (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER**FILING DATE****POWER OF ATTORNEY**

As a named inventor, I hereby appoint the following attorneys jointly and each of them severally, with full power of substitution, delegation, and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

William J. Burke, Reg. No. 29,138
 John V. Silverio, Reg. No. 34,014
 Abhik A. Huq, Reg. No. 40,656

and

Raymond R. Moser, Jr., Reg. No. 34,682
 Eamon J. Wall, Reg. No. 39,414
 Kin-Wah Tong, Reg. No. 39,400
 Of the firm Thomason, Moser & Patterson, LLP

I hereby direct that all correspondence and telephone calls in connection with this application be addressed to:

Thomason, Moser & Patterson LLP
 2-40 Bridge Avenue
 P.O. Box 8160
 Red Bank, NJ 07701
 Tel.(732) 530-9404
 Fax.(732) 530-9808

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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 Kingston, NJ 08528

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 Date: JUNE 13, 2000 Country of Citizenship: U.S.A.
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 Southampton, PA 18966

Full name of **fourth inventor**: Charles Weaver Christine

Inventor's signature: _____
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 Residence and Post Office Address: 37 Hemlock Court
 Hamilton, NJ 08619

Residence and Post Office Address: 403 Catherine Street
Somerville, New Jersey 08876

Residence and Post Office Address: 34 Sycamore Road
Princeton, NJ 08540

Residence and Post Office Address: 43 Bennetts Lane
Somerset, NJ 08873

Residence and Post Office Address: 2552 Candy Tuft Drive
Jamison, PA 18929

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_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	____Yes ____No (Priority Claimed)
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PROVISIONAL APPLICATION NUMBER**FILING DATE****POWER OF ATTORNEY**

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Inventor's signature: _____

Date: 7/15/00 Country of Citizenship: U.S.A.

Residence and Post Office Address: 37 Hemlock Court
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Full name of **fifth inventor**: Elizabeth Annella Martina Seip

Inventor's signature: _____

Date: _____ Country of Citizenship: U.S.A.

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Somerville, New Jersey 08876

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Full name of **seventh inventor**: Kent Charles Koping

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Inventor's signature: _____

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